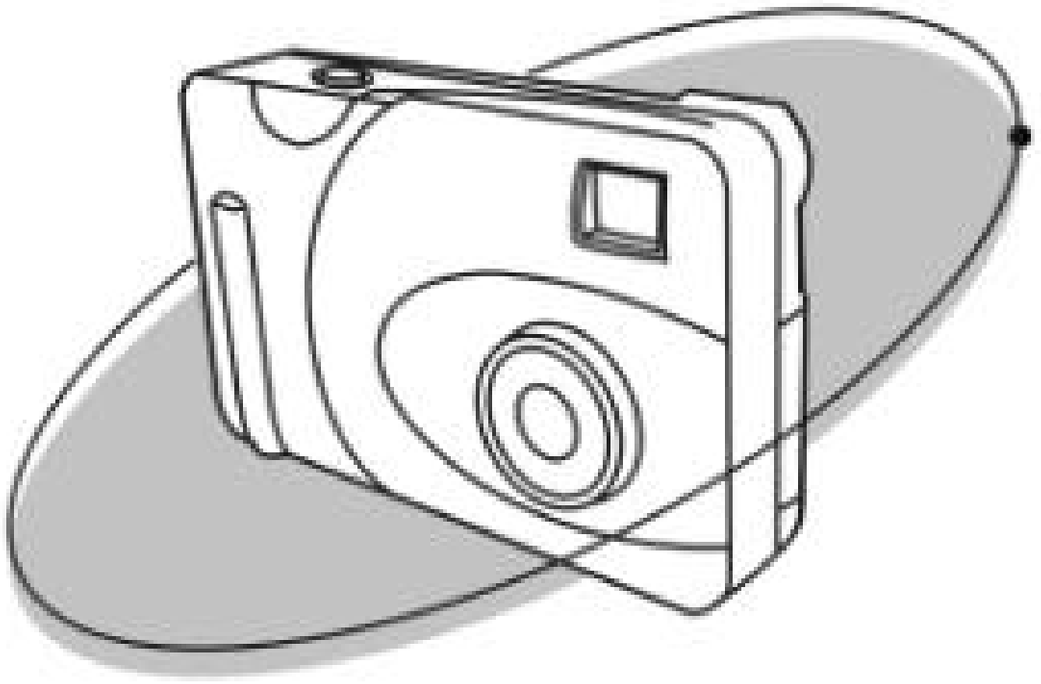
3-in-1 Digital Camera

User's Manual



English

Contents

I	Camera Precautions	1
II	Technical Specifications	2
III	Computer System Requirement	3
IV	Camera Description	4
V	Quick Start	5~7
	Batter Installation	5
	Power On/ Off the Camera	6
	Taking Photos	7
VI	Camera Mode Selections	8~13
VII	Installing the Software	14~15
	Precaution	14
	Install Twain Driver & Application Software	15
VIII	Download Still Images	16~17
IX	Download Movie Images	18
X	PC Camera	19

I) Camera Precautions

Notice the following guidelines when using your camera.

- ✍✍ Do not place this camera in damp or dusty location. This may cause a fire or an electrical shock.
- ✍✍ Do not leave this camera in places subject to extremely high temperatures, such as in direct sunlight. This may affect the camera case and internal components.
- ✍✍ Take care this camera is not bumped when it is being activated. This may cause the camera to malfunction.
- ✍✍ Choose a flat surface free from vibration when units stand on it.
- ✍✍ When the lens or the viewfinder is dirty, please clean them with a lens brush or soft cloth.
- ✍✍ Under the following circumstances, have the camera repaired by qualified personnel.
  a) The cable or plug is damaged or worn.
  b) The device has been dropped and/or the casing has been damaged.
  c) Liquid has entered the camera.

II) Technical Specifications

✍✍ Sensor Resolution	CMOS, 640 x 480 pixels
✍✍ Built-in Memory	8MB
✍✍ Image Storage	640 x 480 pixels 26 images (w/o compression) 52 images (with compression) 320 x 240 pixels 104 images (w/o compression) 208 images (with compression)
✍✍ Status LCD	2-digit B/W on back for functions
✍✍ White Balance	Auto
✍✍ Exposure	Auto
✍✍ View Finder	Optical
✍✍ Focusing	Fixed range from 40cm~infinity
✍✍ Focal Length	6.0 mm
✍✍ Aperture	F=2.8
✍✍ Self Timer	10 seconds
✍✍ File Format	Still images--- JPEG Movie images--- AVI
✍✍ Interface	USB
✍✍ Delete Image	All / last one
✍✍ Movie clip	supported
✍✍ Video Teleconference	PC camera, NetMeeting 10 fps-CIF resolution
✍✍ Auto Power Off	20 seconds
✍✍ Battery	3xAAA Alkaline Battery;
✍✍ Dimensions	85.6x54x23 mm
✍✍ Weight	50g(w/o Battery)
✍✍ Operation System	WIN98/98SE/2000/XP

III) Computer System Requirements

- Personal computer designed for Win98, 98SE, 2000 , ME or XP
- Required a CD-ROM drive to install software, min. 200 MHz microprocessor
- Available USB port
- Color display monitor with a minimum resolution of 640 x 480 (1024 x 768 recommended; 24-bit True Color recommended)
- 48 MB available RAM for WIN98, ME; 64 MB for WIN 2000 and WIN XP
- 120 MB of available hard disk space

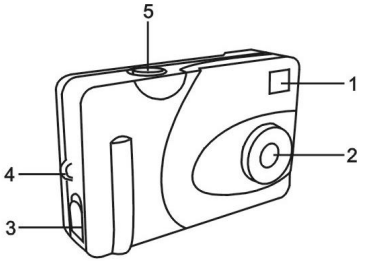


Fig. (1)

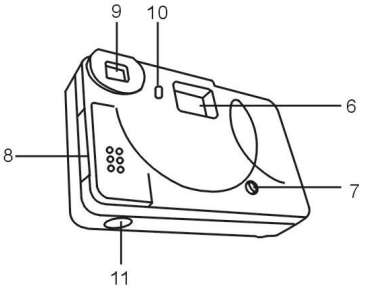


Fig. (2)

IV) Camera Description

Front Side---Fig. (1)

1.Viewfinder
2. Lens
3. Battery compartment door
4**.** Hand strap lug
5. Shutter release button

Back Side---Fig. (2)

6. Status LCD
7. Power on button
8. USB port and its rubber cover
9. Viewfinder
10. Mode button

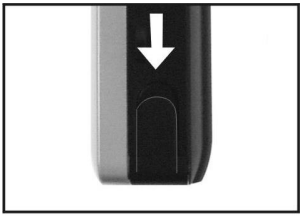


Fig. (3)

Fig. (4)

V) Quick Start

Battery Installation

1. Open the battery compartment Door. Refer to Fig. (3).
2. Insert three AAA alkaline batteries into the battery compartment with the polarity in the direction as shown. Refer to Fig. (4)

Important: When the batteries are low, you will see the indication on status LCD continuously blinking. **Always download photos to the PC prior to replace batteries to avoid memory loss**.

Note:

a) Do not mix using old and new batteries together. Replace all the batteries at once. .

b) Recommend remove the batteries if the camera is not going to be used for some time. This will save the battery life.

c) The camera has 3 minutes data loss protection to allow you to replace batteries if you can not download the photos in advance while the batteries are drained.

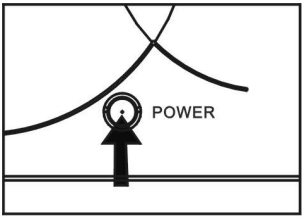


Fig. (5)

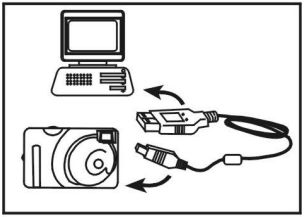


Fig. (6)

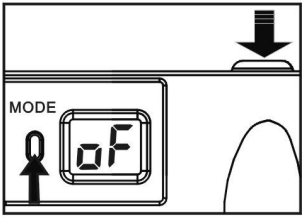


Fig. (7)

V) Quick Start

Power on/off the Camera

Power On

Method 1

Press the "POWER" button till the status LCD lights up. See Fig. (5).

Method 2

Plug in the USB cable and connect it with your PC, and press the "Power" button (7), then the camera will be powered on by USB power source. See Fig. (6).

Power Off

Method 1

The camera will be turned off automatically after 20 seconds without activating.

Method 2

Press the mode button till the "Status LCD" (6) shows as Fig. (7). Then press the "Shutter Release button" (5) to turn off the camera.

Note: If the camera is connected with the PC, you have to unplug the USB cable to turn off the camera.

V) Quick Start

Taking Photos

Once turn on the camera, you will see the "Status LCD" (6) shown "Hi" and frame number "26" after then. Refer to Fig. (8) If there are images already saved in the camera, the frame number appeared indicates how many shots are available for shooting.

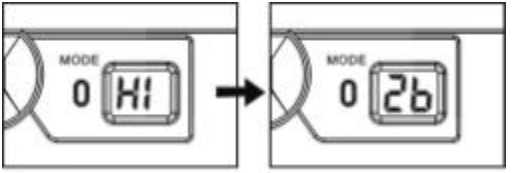


Fig.(8)

1. Look through the "Viewfinder" (1) to aim the subject what you want to shoot.
2. Press the ' Shutter release button" (5) to take photos.
3. The frame number shown on "Status LCD" (6) indicates how many shots are still available before the memory is full. The counter will automatically deduct one after each shot is taken. It is displayed in a countdown way.
4. When a photograph is taken, a single short "beep" will be heard. After the beep sound, the camera is ready to take another photo.

Important: If the environment is too dark for this camera to get acceptable image quality, the camera's self detection device will prevent you from taking photos.

Note: Whenever you hear two "beep" sounds, it means the memory is full or the light is not bright enough. No photo can be taken under this circumstance.

VI) Camera Mode Selection

1. By pressing the "MODE button" (10) sequentially, you can cycle through different shooting modes as displayed on the Status LCD (6). When a given mode is displayed, it can be entered by pressing the "Shutter Release button" (5) to take photos.

2. The different status LCD panel icons are shown as below in Fig. (9).

OF: Power off
St: Self timer in 10 seconds
d8: Capture pictures in video mode
CA: Delete all photos in the memory
CL: Delete the last picture
Hi: High resolution (640 X 480 pixels)
Lo: Low resolution (320 X 240 pixels)
50: Lighting AC power frequency 50MHz
60: Lighting AC power frequency 60MHz
Hd: Enable compression
Ld: Disable compression

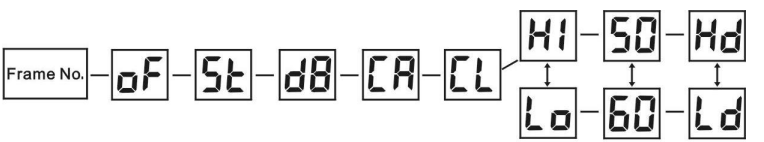


Fig.(9)

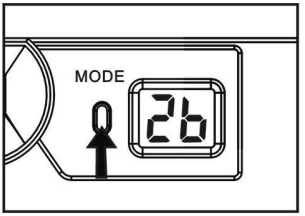


Fig.(10)

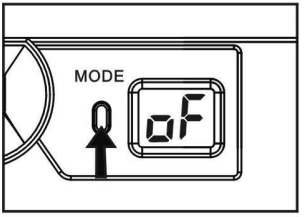


Fig.(11)

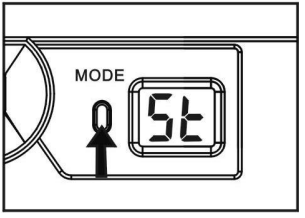


Fig.(12)

VI) Camera Mode Selections

a) Default (Hi) resolution
The camera can take 26 photos at "Ld" storage format, without compression. If in compression "Hd " mode , the camera can take 52 shots. (see Fig. (10))

b) Power Off
Press the " Shutter Release button" (5) to turn off the camera. (see Fig. (11))

c) Self Timer
After entering self-timer mode (see Fig. (12)), press the " Shutter Release button" (5) to perform the self-time feature. There are 10 seconds shooting delay. During this interval, you can hear "beep" sound at every second.

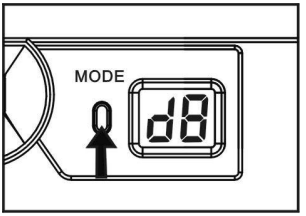


Fig.(13)

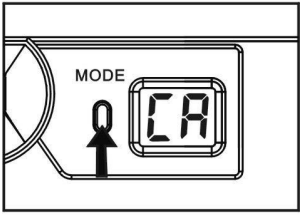


Fig.(14)

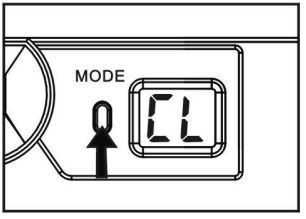


Fig.(15)

VI) Camera Mode Selections

d) Video Clip

Press the mode button to access the video clip mode. (Refer Fig. (13)). After then press and hold the shutter button (5). The camera will take rapid shot continuously. To stop the movie clip, just release the shutter button (5). Maximum 99 images can be taken at 320x240 resolution.

e) Delete All Photos

Enter the mode of "delete all photos" (Refer to Fig. (14)), you can delete all images stored in camera by pressing the "Shutter release button" (5). The symbol "CA" will blink **5 seconds** to reconfirm the deletion command. Press the shutter release button again to delete the photo(s); otherwise, the delete command will be cancelled and the camera will revert to the default mode.

Important: Before activating this mode, make sure that all those desirable photos have been downloaded to the PC.

f) Delete the last photo

Enter to this mode, the camera will delete the last photo you shot. Refer to Fig. (15).

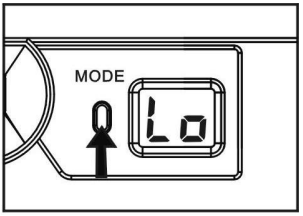


Fig.(16)

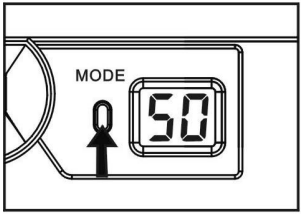


Fig.(17)

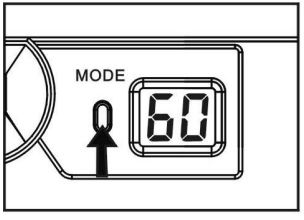


Fig.(18)

VI) Camera Mode Selections

g) Low resolution
In this mode, the camera can take 104 pictures in "Ld" format, without compression; 208 images in "Hd" format, with compression. (See Fig. (16)). Due to only two digits display on the Status LCD (6), unless the available frames are lower than 99, the frame number will not count down. It will keep showing "99" even though pictures have been taken and stored in camera.

h) 50: Lighting AC power frequency
If the lighting AC power is in 50 MHz frequency, press mode button and shutter release button to enter this mode. It can eliminate the potential image noise caused by external lighting source. (See Fig. (17)).

i) 60: Lighting AC power frequency
If the lighting AC power is in 60 MHz press mode button and shutter release button to enter this mode. It can eliminate the potential image noise caused by external lighting source. (See Fig. (18)).

Note: Please refer to the "Worldwide AC Electrical Power Frequency" Table in page 12 for choosing the correct frequency.

World AC Electrical Power Frequency Reference Table

Country	Frequency (Hz)	Country	Frequency (Hz)	Country	Frequency (Hz)
Argentina	50	Germany	50	Netherlands	50
Australia	50	Greece	50	New Zealand	50
Austria	50	Hong Kong	50	Pakistan	60
Belgium	50	Hungary	40, 50	Panama	60
Brazil	60	India	50	Philippines	60
Bulgaria	50	Indonesia	50	Poland	50
Canada	60	Iran	50	Portugal	50
China	50	Israel	50	Romania	50
Colombia	60	Italy	50	Saudi Arabia	50, 60
Czech	50	Japan	50, 60	Spain	50
Demark	50	Morocco	50	Sweden	50
Dominica	60	Korea	60	Switzerland	50
Dubai	50	Kuwait	50	Thailand	50
England	50	Luxemburg	50	Taiwan	60
Finland	50	Malaya	50	U. S. A.	60
France	50	Mexico	50, 60	U. S. S. R.	50

Note: It is suggested to choose the correct frequency in your territory when taking photos **indoors**, because the indoor lighting frequency may cause image noise.

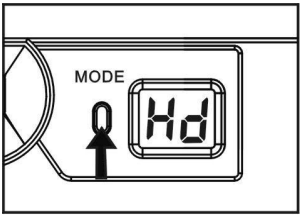


Fig.(19)

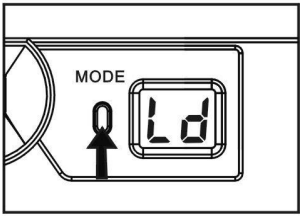


Fig.(20)

VI) Camera Mode Selection

j) Enable Compression

Press mode key to select "Hd" and press the "Shutter release button" (5) to entry compression mode for "Hi" or "Lo" resolution images. (Fig. (19))

k) Disable Compression

Press mode key to select "Ld" and press the "Shutter release button" (5) to entry decompression mode for "Hi" or "Lo" resolution images. (Fig. (20))

Note: In "Hd" mode, due to the images need processing compression, the preparation time for the next still image shot will be longer and the Status LCD (6) will show "- -" signal for processing.

VII) Installing the Software

Precaution!!!

If your computer is Windows XP system, please note the following notices.

This camera is compatible with Microsoft XP operation. Before installing the Twain Driver, the computer may have warning message said that the software has not passed Windows Logo test. At this moment, you have to set up Microsoft Windows Hardware Compatible manually in advance. (Refer the Figure below.) Or you may just ignore the warning message and keep going on installing the software.

Please follow the instructions step by step

1. Right-click " My computer" icon and click "Property."
2. Check " Hardware" tab and click " Driver Signing" button.
3. a) Click the default setting "Warn-Prompt me each time to choose an action" if you want the computer display the warning message whenever you install new software.

   b) Click " Ignore-Install the software anyway and don't ask for my approval" if you don't need the reminded warning message whenever you install new software.
4. Click "OK" for Microsoft XP hardware compatible setup.

Install Driver & Application Software

1. Turn on your computer.
2. Place the software disk to your computer's CD-ROM drive.
3. You MUST check and install the "Twain Driver" first. After then, check " Presto! Mr. Photo" or "Presto! Image Folio" images editing programs for editing your photos.
4. Follow the instructions to complete the software installation. Normally you can select "NEXT" icon to use default setting to go to next step installation.
5. Restart your PC after finishing the installation.
6. After PC rebooting, use USB cable to connect the camera with PC. Windows will display "Find new hardware" after 3 seconds.

Note: If the installer wizard does not display automatically, open the folder on the CD-ROM and double-click the "Setup.exe" file.

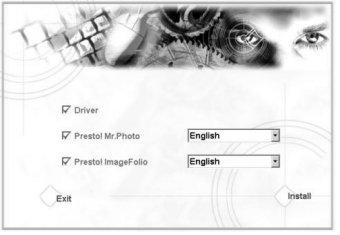
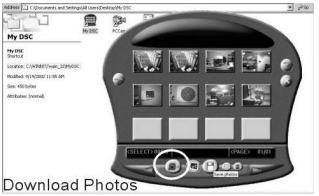


Fig.(21)

The Camera MyDSC

Fig. (22)



Download Photos

Fig. (23)

Save Photos

Fig. (24)

VIII) Download Still Images

Method 1

1. Plug the USB cable to the camera and computer properly.

2. Double click the “My DSC” folder on your desktop.

3. Double click “My DSC” icon. The download and editing wizard will be shown on the screen. Refer Fig. (22).

4. Click “Download Photos” to download images in the camera. (See Fig. (23)). The downloaded thumbnail images can be enlarged by right mouse click. Choose the desirable images and click “Save Photos” to save those images to you designated folder. Refer Fig. (24)

Note: The still images will be saved in “JPEG” format directly.

Fig. (25)

Fig. (26)

Fig. (27)

VIII) Download Still Images

Method 2

1. Open Mr. Photo 3

2. Please specify the device type for Digital camera, refer to Fig (25).

3. Download the images by clicking “Import” icon and choosing “Dual Mode DSC (2770)” refer Fig (26). Then the wizard will appear As Fig. (27) shown, click “ Download Photos” ; choose the desirable photos and click the “ Transfer Photos” icon as Fig. (27) shown. Then the images can transfer to ”Mr. Photos” directly and save the images in JPEG format.

4. Now, you can review and edit your still photos via Mr. Photo 3.

Fig. (28)

IX) Download Movie Images

1. Apply the same procedures as "Download still image" described above (method 1) to download the movie mode images.

2. After downloading the images, a thumbnail wth "AVI" label on the top left corner will show on the download wizard. Refer to Fig. (28)

3. Select the wanted files and save them to the designated folder.

Note: The movie images will be saved in AVI format directly.

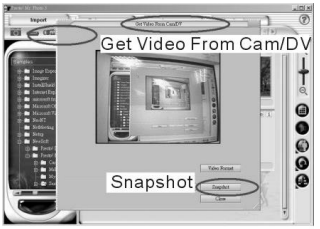


Fig. (29)

X) PC Camera

1. Plug the USB cable to the camera & computer properly.
2. Open Mr. Photo 3 and select icon (Get Video from Cam/DV)
3. Select “Dual Mode DSC (2770)”
4. Click “Start” & “Stop” for acquiring Video
5. Click “Snapshot” to capture still images. Refer to Fig. (29).

Note: The camera is functioned to be a Web-cam (PC Camera) and is able to connect with Microsoft NetMeeting software.